



The Role Of Civil Engineers In Society : Engineering Practice And Ethics

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Definition Of Civil Engineering

Civil engineering is a professional engineering discipline that deals with the design, construction, and maintenance of the physical and naturally built environment, including works like roads, bridges, canals, dams, airports, sewerage systems, pipelines and railways.

There are two major types of engineering roles performed by civil engineers;

- . Consultant engineers who focus on design work and generally spend more time in the office or working with clients.
- . Contractors who are more involved in keeping an eye on the physical construction and are usually based on site.

Major Role Of Civil Engineers In Society

- Construction of different infrastructures and buildings that gives services for public use.
- The civil engineer has the responsibility of undertaking preliminary studies of possible plans leading to a recommended scheme.
- He also has the mandate of preparing contract documents for civil engineering projects.
- More than one third of the wealth creation of the globe is from the construction industry.
- The construction industry is the largest employer of manpower.

Major Roles Of Civil Engineers In Society Continued

- Investment in the construction industry all over the world is in the region of over one trillion dollars per annum.
- Civil engineering provides you with a greater range of job opportunities.
- In the Nigerian society, the practice of civil engineering plays the role of supporting the economic development and the standard of living of her people.
- Civil engineers always find ways to deliver the needed infrastructure when there is little or no money to pay for it.
- Civil engineers must always find solution to complex problems and implement them; they shape the world we live in.

Attributes Of Civil Engineers

A civil engineer is expected to possess the following attributes;

- They must be innovative and logical individuals
- They are expected to be creative and versatile
- They are problem solvers
- They should have the ability to understand the bigger picture
- They must be able to collaborate with a number of other professionals

Fixing of underground drain floor and wall reinforcement at Unilever



Blue band manufacturing factory for Unilever Plc Agbara



Construction of truck loading ramp



Retaining walls for raw salt storage building for JOF salt factory Agbara



Stub columns and bases for JOF salt factory Agbara



Warehouse floor concreting for Unilever mega warehouse Agbara



Truck ramp reinforcement and formwork for truck ramp



Warehouse floor concreting using merlo mobile concrete mixer



Polishing warehouse concrete floor with power floating machine



Trailer park for Unilever mega warehouse Agbara



Production of precast truck barriers and kerbs for trailer park



Fixing of hold down bolts with sleeves for steel stanchions



Retaining wall formwork system for fare face concrete



Concrete hard standing repair works



Reinforcement fixing for perimeter fence retaining wall with footing

